

IN THE SPECIFICATION:

Please replace paragraph [0004] with the following amended paragraph:

The microcontroller with an ADC is more expensive than a digital controller without an ADC, and the power loss or consumption of the microcontroller is also greater. In order to satisfy the measurement demands for the analog signal and effectively reduce the cost and power loss, it is necessary to develop a device and method for measuring the analog signal using the digital controller (a purely digitized controller without any analog/~~signal~~digital converter or microcontroller) so as to save the power and cost and enhance the product's competition ability.

Please replace paragraph [0007] with the following amended paragraph:

The analog signal measuring device for measuring an analog signal includes a digital controller, a waveform converter and a comparator. The digital controller includes a PWM controller for outputting a pulse signal having an adjustable pulse width to the waveform converter, which converts the pulse signal into a sawtooth wave or a triangle wave for output as a carrier signal. Next, the comparator feeds a comparison pulse signal, which is obtained by comparing the carrier signal to the analog signal, to the digital controller, which enables or disables the counter to generate a count value corresponding to the comparison pulse signal. Since the count value depends on the comparison pulse signal and the type of the comparison pulse signal is directly related to the analog signal, the digital controller may get a measured value of the analog signal according to the count value.